

Fig. 1

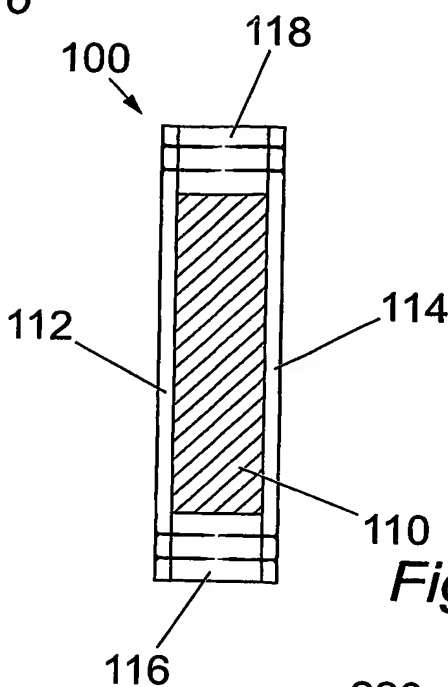


Fig. 2

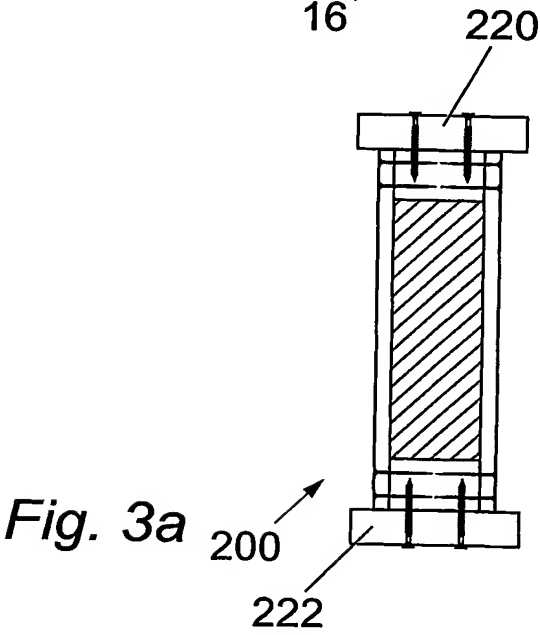


Fig. 3a

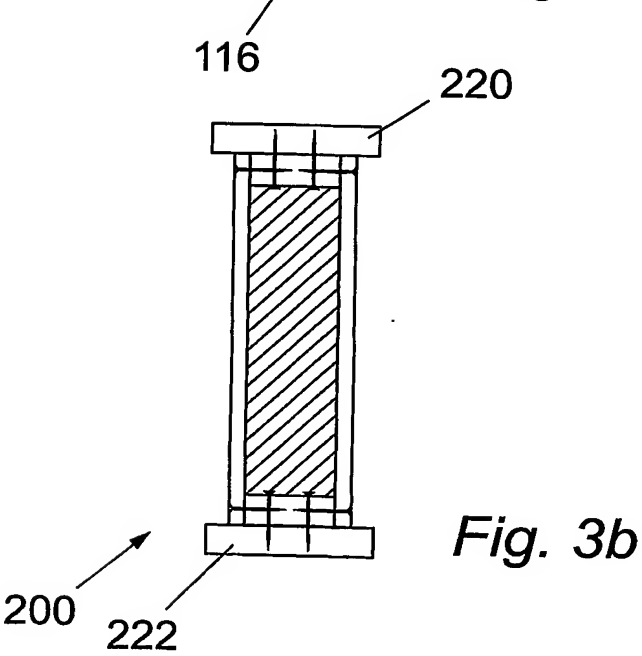


Fig. 3b

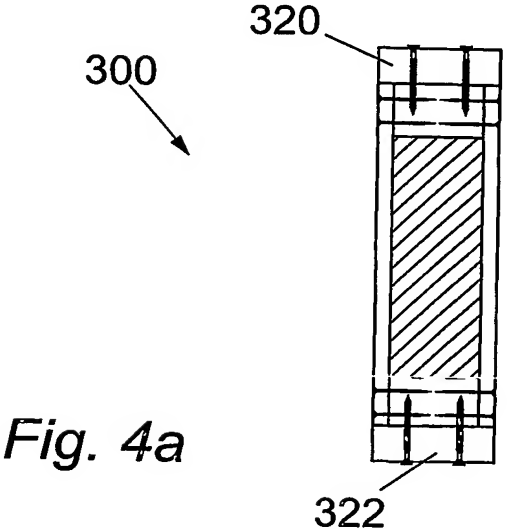


Fig. 4a

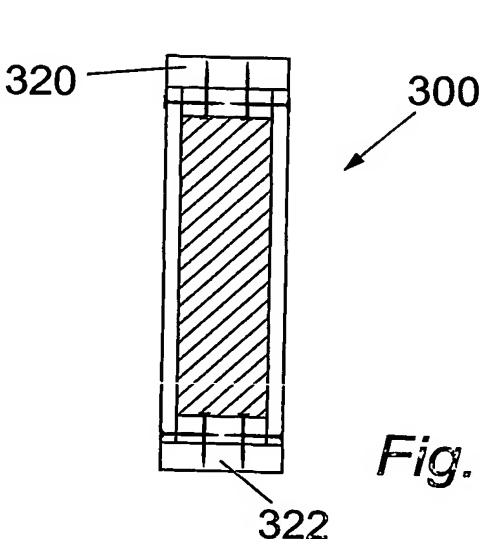
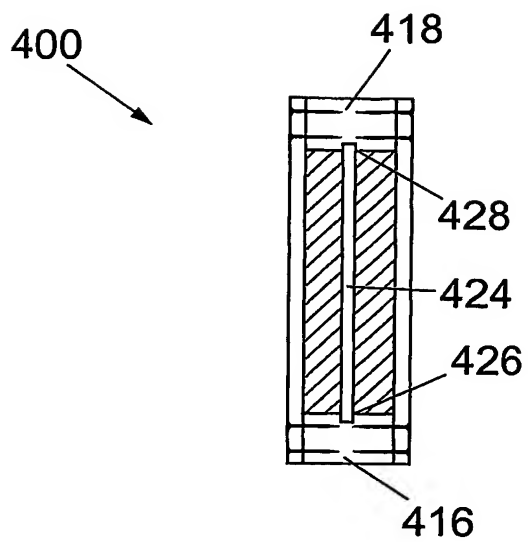
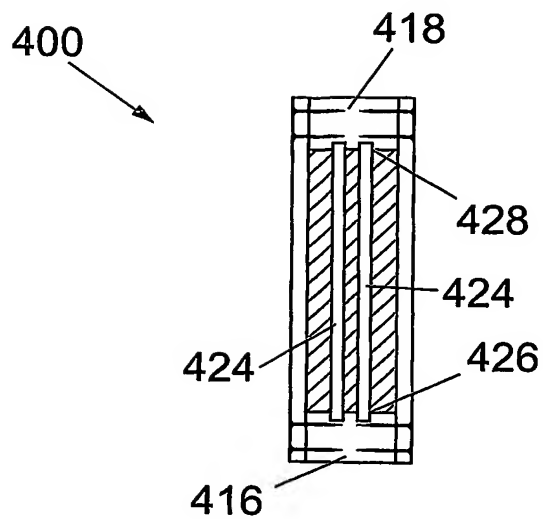


Fig. 4b

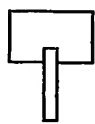
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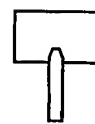
*Fig. 5a*



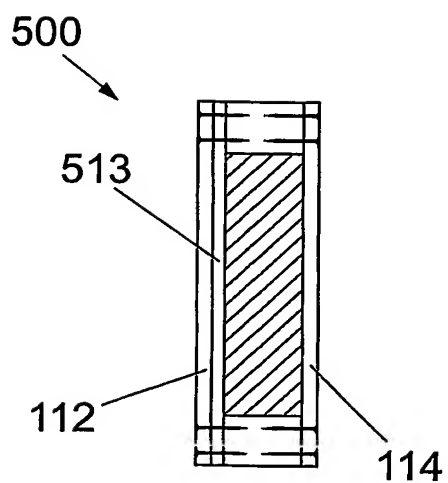
*Fig. 5b*



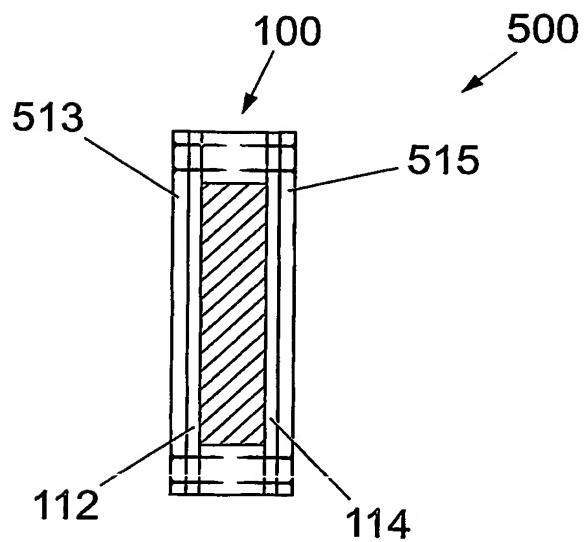
*Fig. 5c*



*Fig. 5d*



*Fig. 6a*



*Fig. 6b*

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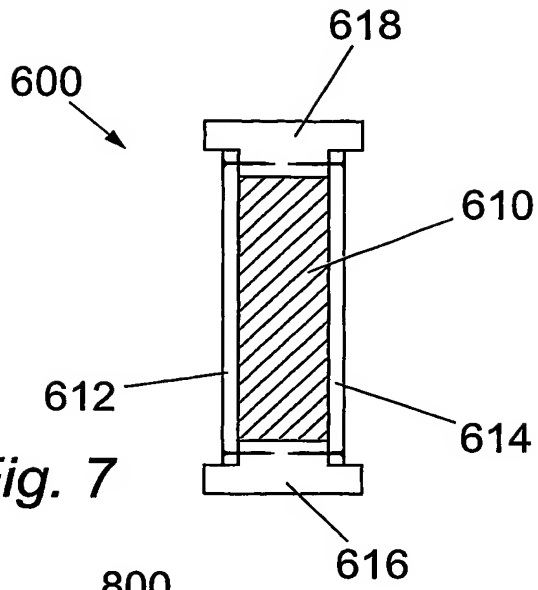


Fig. 7

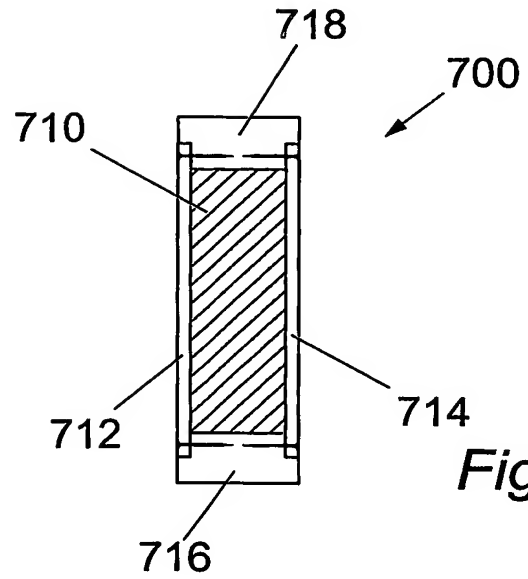


Fig. 8

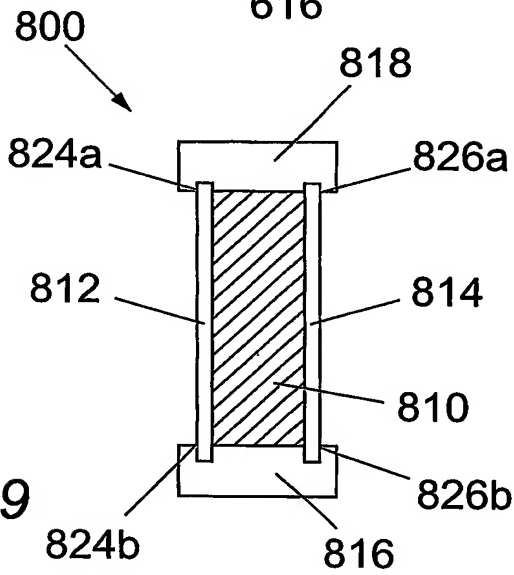


Fig. 9

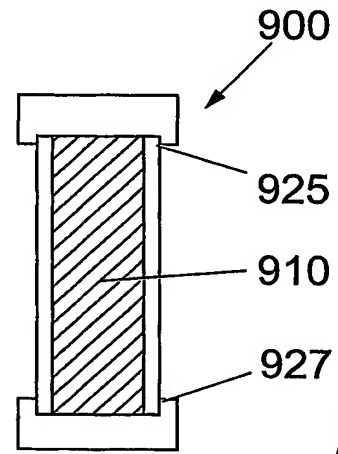


Fig. 10

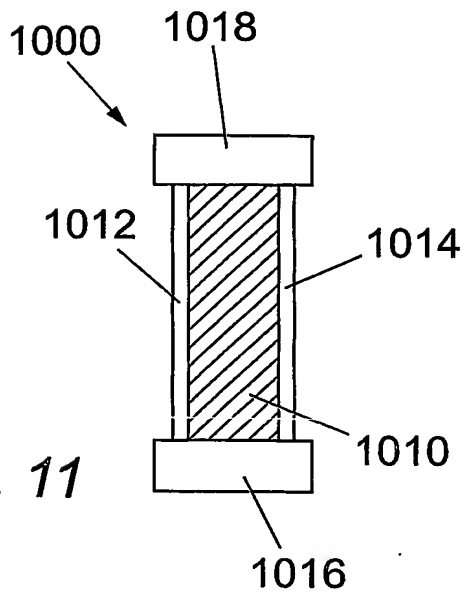


Fig. 11

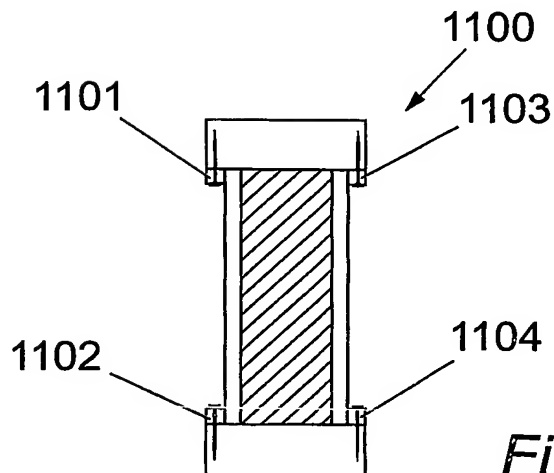
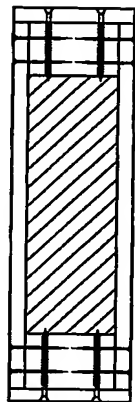
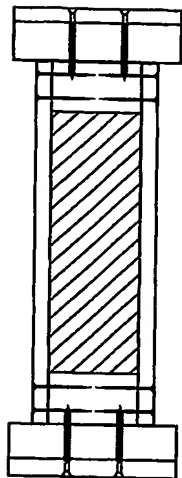


Fig. 12

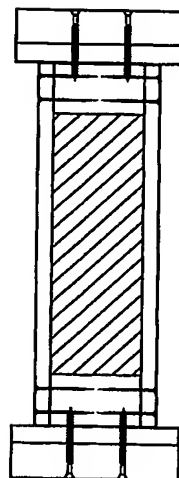
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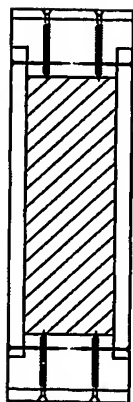
*Fig. 13a*



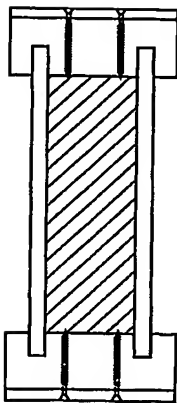
*Fig. 13b*



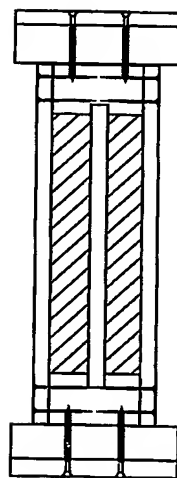
*Fig. 13c*



*Fig. 13d*



*Fig. 13e*



*Fig. 13f*

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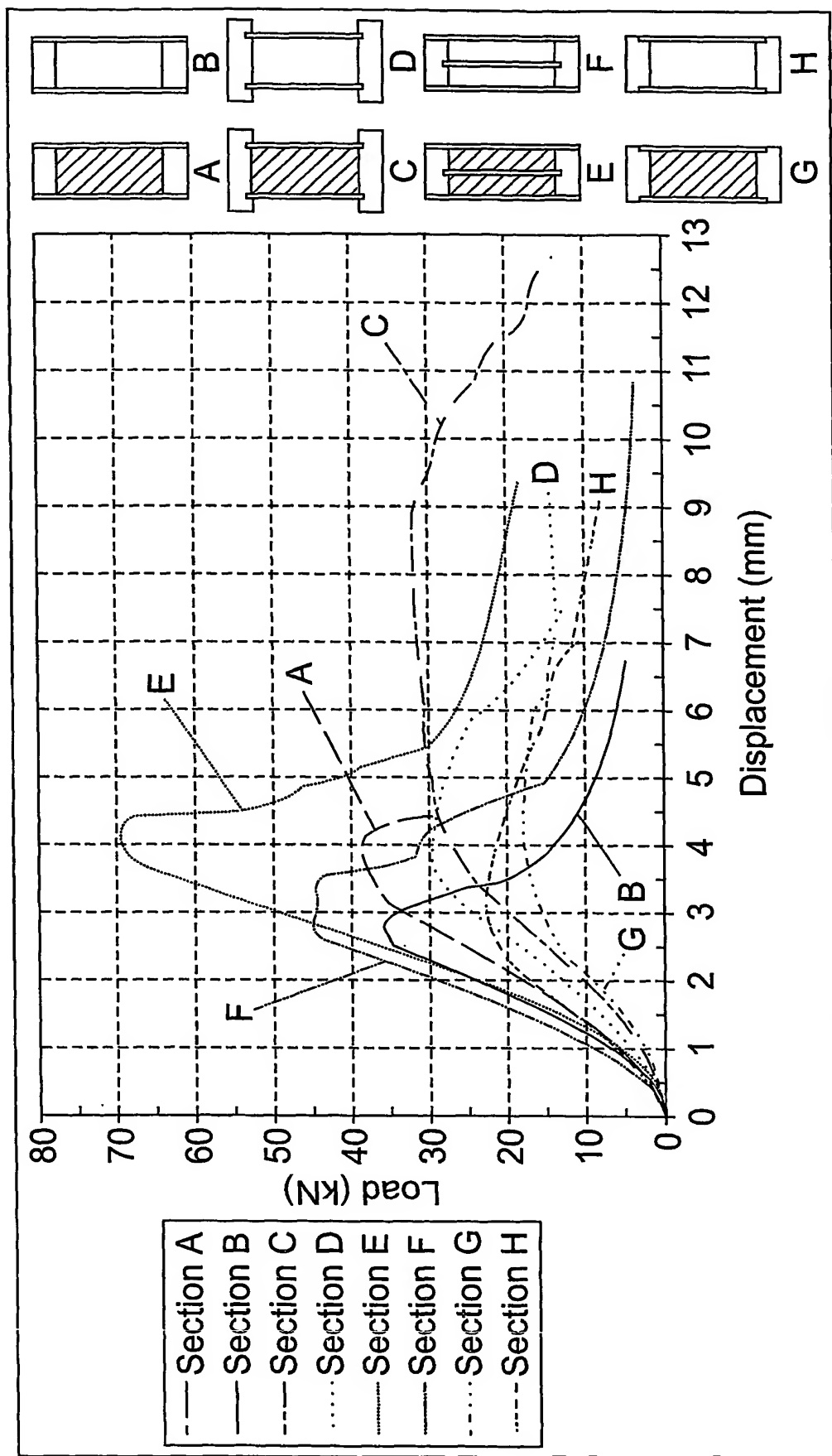


Fig. 14

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Criterion	LVL	Parallam	Glulam	I-Joist	Box Beam	Structural Support Beam of Present Invention
Span	7	7	10	6	10	10
Strength	6	10	10	2	4	10
Stiffness	6	10	8	5	6	10
Appearance	8	10	9	0	5	5
Weight	0	0	0	10	10	10
Environment issue	-5	-5	0	0	5	4
Cost	-8	-10	-5	5	10	10
Connectability	6	5	10	0	6	6
Ease of use	6	6	8	-5	5	10
Size limitation	8	4	10	5	10	10
Dimensional stability	10	10	8	0	5	10
Availability in UK	0	0	7	10	5	10
<b>Total</b>	<b>44</b>	<b>47</b>	<b>75</b>	<b>38</b>	<b>81</b>	<b>105</b>

Indicators are: -10 is the most negative and +10 is the most positive.

Fig. 15